

**RTCA Special Committee 186, Working Group 3**

**ADS-B 1090 MOPS, Revision A**

**Meeting #4**

**Suggestions for placement of Requirements in DO-260A for Enhanced  
Reception Techniques, TIS-B and FIS-B**

**(Presented by Furr, Searight, Van Dongen, Orlando, Saffell)**

<b>SUMMARY</b>
<b>This paper proposes the location within DO-260A for the placement of Requirements for Enhanced Reception Techniques, TIS-B and FIS-B, as agreed to by Gary Furr, Stuart Searight, Vince Orlando and Bob Saffell for the consideration of the Working Group.</b>

Following several discussions and email exchanges, it was agreed that the appropriate place in DO-260A to write requirements related to Enhanced Reception Techniques was at paragraph 2.2.4.4, while moving the current text of 2.2.4.4 to 2.2.4.5, as shown below:

2.2.4	ADS-B Receiver Characteristics
2.2.4.1	MTL Definition
2.2.4.2	Receivers Shared with TCAS
2.2.4.2.1	Dual Minimum Triggering Levels
2.2.4.2.1.1	TCAS Compatibility
2.2.4.2.1.2	ADS-B Compatibility
2.2.4.2.2	Re-Triggerable Reply Processor
2.2.4.3	Receivers not Shared with TCAS
2.2.4.3.1	In-Band Acceptance and Re-Triggerable Capability
2.2.4.3.1.1	In-Band Acceptance
2.2.4.3.1.2	Re-Triggerable Capability
2.2.4.3.2	Out-of-Band Rejection
2.2.4.3.3	Dynamic Minimum Trigger Level (DMTL)
2.2.4.3.4	1090 MHz ADS-B Message Reception Techniques
2.2.4.3.4.1	ADS-B Message Reception
2.2.4.3.4.2	Narrow Pulse Discrimination
2.2.4.3.4.3	TACAN and DME Discrimination
2.2.4.3.4.4	Pulse Characteristics of Received ADS-B Messages
2.2.4.3.4.5	Message Formats
2.2.4.3.4.6	Description of 1090 MHz ADS-B Message Received Signals
2.2.4.3.4.7	ADS-B Signal Reception
2.2.4.3.4.7.1	Criteria for ADS-B Message Transmission Pulse Detection
2.2.4.3.4.7.2	Criteria for Preamble Acceptance
2.2.4.3.4.7.3	Criteria for Data Block Acceptance in ADS-B Message Signals
2.2.4.3.5	ADS-B Receiver Duty Factor
2.2.4.4	Optional Enhanced Reception Techniques
2.2.4.5	ADS-B Received Message Error Protection (formerly 2.2.4.4)

This proposal provides a place for text and requirements related specifically to Enhanced Reception Techniques, while separating it from the TCAS issues, since these techniques apply to TCAS receivers as well as stand alone receivers.

Additionally, paragraphs for TIS-B and FIS-B should be placed at the end of Section 2.2 and become new paragraphs 2.2.17 TIS-B and 2.2.18 FIS-B.